

A. CLASSIFICATION OF SUBJECT MATTER

IPC 6 A61K31/13 A61K31/445 A61K31/55 A61K31/495 A61K31/35
 A61K31/415 A61K31/135 A61K31/575 A61K38/09

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 6 A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DIG DIS SCI (UNITED STATES), SEP 1993, VOL. 38, NO. 9, PAGE(S) 1590-5, Weston AP et al 'Terminal ileal mucosal mast cells in irritable bowel syndrome.'	1,5,21
Y	see the whole document	1-7,20, 21

X	SCAND J GASTROENTEROL SUPPL (NORWAY), 1987, VOL. 130, PAGE(S) 7-13, Read NW 'Irritable bowel syndrome (IBS)--definition and pathophysiology.'	1,21
Y	see the whole document	1-7,20, 21

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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
 "E" earlier document but published on or after the international filing date
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 "P" document published prior to the international filing date but later than the priority date claimed

- "I" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
 "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
 "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
 "&" document member of the same patent family

Date of the actual completion of the international search

31 May 1995

Date of mailing of the international search report

11. 09. 95

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C4(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	AM. J. GASTROENTEROL., vol.87, 1992 pages 55 - 57 G.F. STEFANINI 'Oral disodium cromoglycate treatment on irritable bowel syndrome: An open study on 101 subjects with diarrheic type'	1,5,21
Y	see the whole document ---	1-7,20, 21
Y	GLAS SRPSKE AKADEMIJE NAUKA, vol.24, 1971 pages 43 - 50 P. STERN ET AL. 'Contribution to pharmacology of spermidine' see abstract ---	1-7,20, 21
Y	CLIN. EXP. PHARMACOL. PHYSIOL. (ENGLAND), 1986, VOL. 13, NO. 1, PAGE(S) 87-90, 'Comparison of the inhibitory effects of spermine, papaverine and adrenaline upon isolated segments of the rat small intestine' see the whole document ---	1-7,20, 21
Y	70TH ANNUAL MEETING OF THE FEDERATION OF AMERICAN SOCIETIES FOR EXPERIMENTAL BIOLOGY, ST. LOUIS, MO., USA, APR. 13-18, 1986. & FED PROC., VOL. 45, NO. 3, PAGE(S) 437, 1986. CARTAGENA A ET AL 'INHIBITION OF MAST CELL DEGRANULATION BY NATURAL POLYAMINES' see abstract ---	1-7,20, 21
Y	J CLIN GASTROENTEROL (UNITED STATES), JUN 1981, VOL. 3, NO. 2, PAGE(S) 153-6, PAGE JG ET AL 'Treatment of the irritable bowel syndrome with Bentyl (dicyclomine hydrochloride).' see the whole document ---	7
Y	WO,A,93 12773 (KOS PHARM., INC.) 8 July 1993 see the whole document ---	1-7,20, 21
Y	GASTROENTEROLOGY,, VOL. 99, NO. 6, PAGE(S) 1668-1674, 1990. AURICCHIO S ET AL 'AMINES PROTECT IN-VITRO THE CELIAC SMALL INTESTINE FROM THE DAMAGING ACTIVITY OF GLIADIN PEPTIDES' see the whole document ---	1-7,20, 21

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US,A,4 507 321 (I.H. RAISFELD) 26 March 1985 see column 2 see column 8 ---	1-7,20, 21
A	BIOCHEM. PHARMACOL. (ENGLAND), 1983, VOL. 32, NO. 11, PAGE(S) 1733-1736, AIHARA H. ET AL 'Polyamine inhibition of gastric ulceration and secretion in rats' see the whole document ---	1-7,20, 21
A	AM. J. PHYSIOL., 1993, VOL. 264 pages G367 - G374 MCCORMACK, SHIRLEY A. ET AL 'Polyamines are necessary for cell migration by a small intestinal crypt cell line.' see the whole document -----	1-7,20, 21

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO-A-9312773	08-07-93	US-A- 5250529 AU-B- 3422793 EP-A- 0618796	05-10-93 28-07-93 12-10-94
US-A-4507321	26-03-85	NONE	